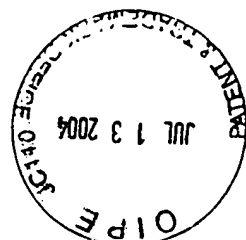


1	R	P	S	G	R	K	S	S	6	S	K	8	M	9	Q	A	F	R	I
16	W	D	V	N	Q	K	T	F	Y	L	R	N	N	Q	L	V	A	G	Y
36	Q	G	P	N	V	N	L	E	E	K	I	D	V	V	P	I	E	P	H
56	L	F	L	G	I	H	G	G	K	M	C	L	S	C	V	K	S	G	D
76	T	R	L	Q	L	E	A	V	N	I	T	D	L	S	E	N	R	K	Q
96	K	R	F	A	F	I	R	S	D	S	G	P	T	T	S	F	E	S	
116	C	P	G	W	F	L	C	T	A	M	E	A	D	Q	P	V	S	L	
	M	P	D	E	G	V	M	V	T	K	F	Y	F	Q	E	D	E		

FIG.1



Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Ser Ile Cys Cys Thr	10	20
Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp	30	40
Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu	50	60
Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp	70	80
Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu	90	100
Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu	110	120
Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Leu Arg Glu Asn Glu Cys Val	130	140
Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu	150	160
161		
Asn		

FIG.2



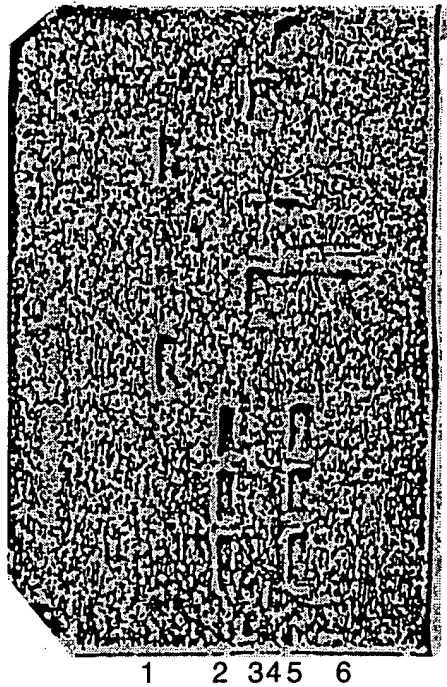


FIG. 3

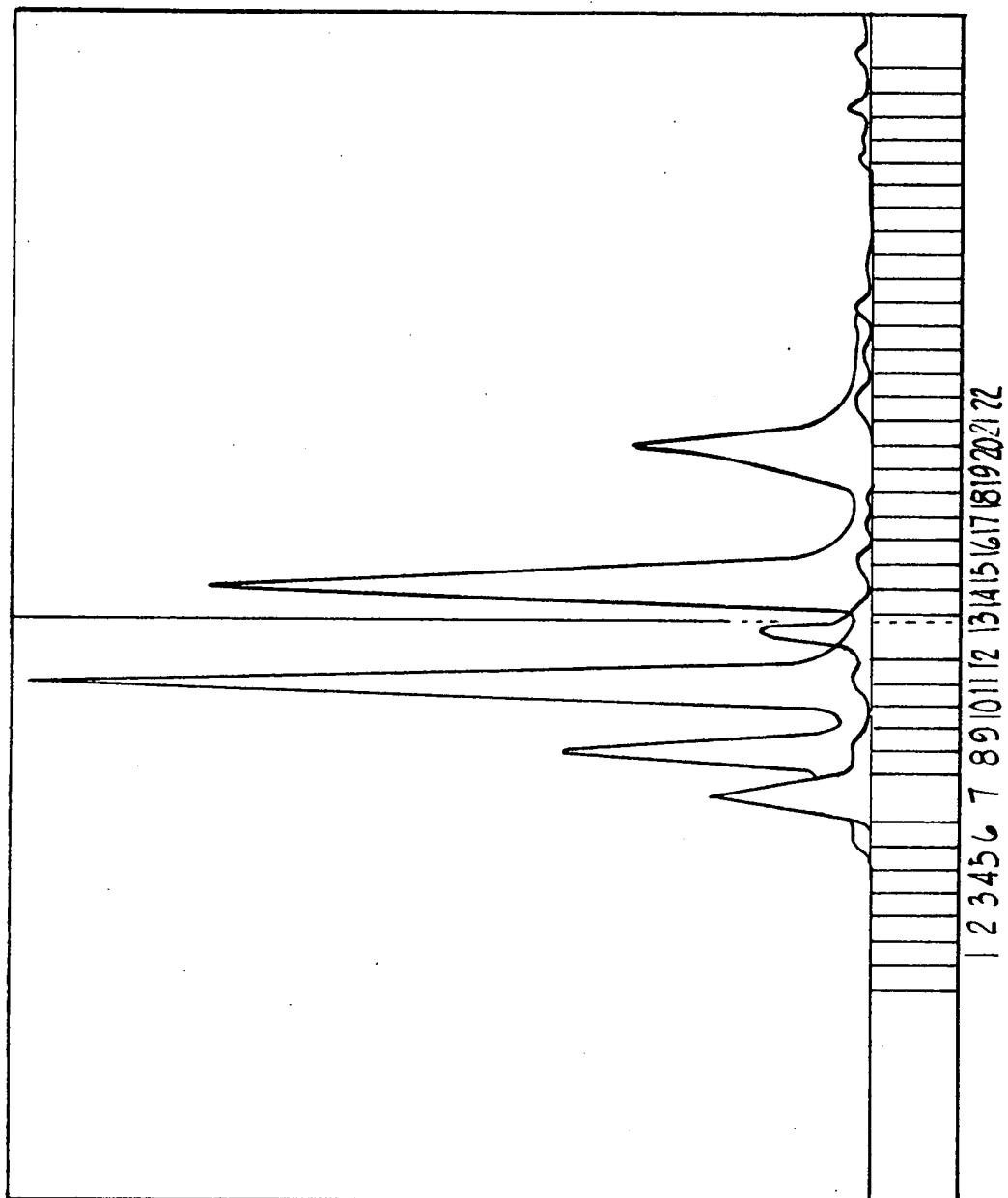


FIG. 5



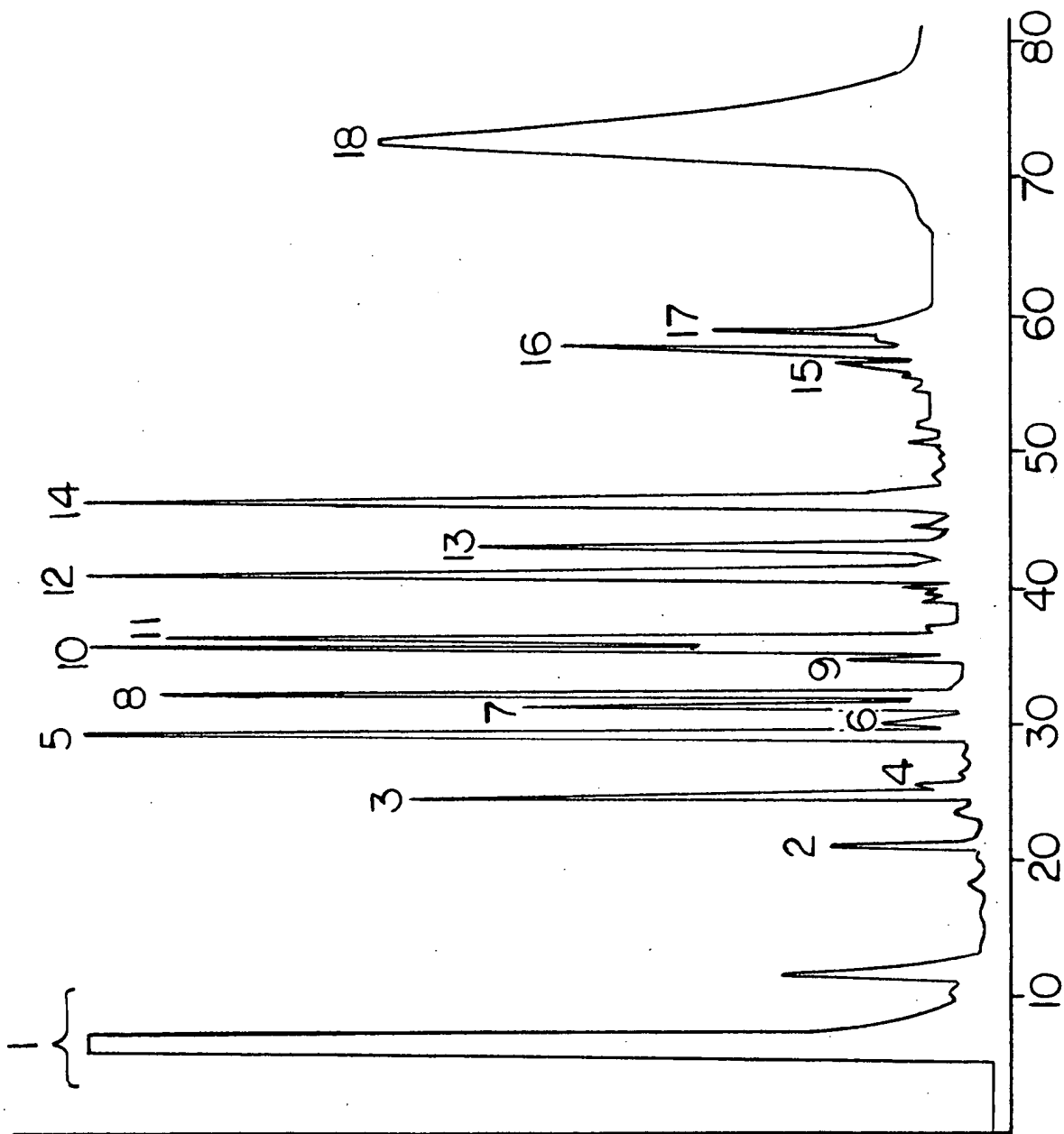
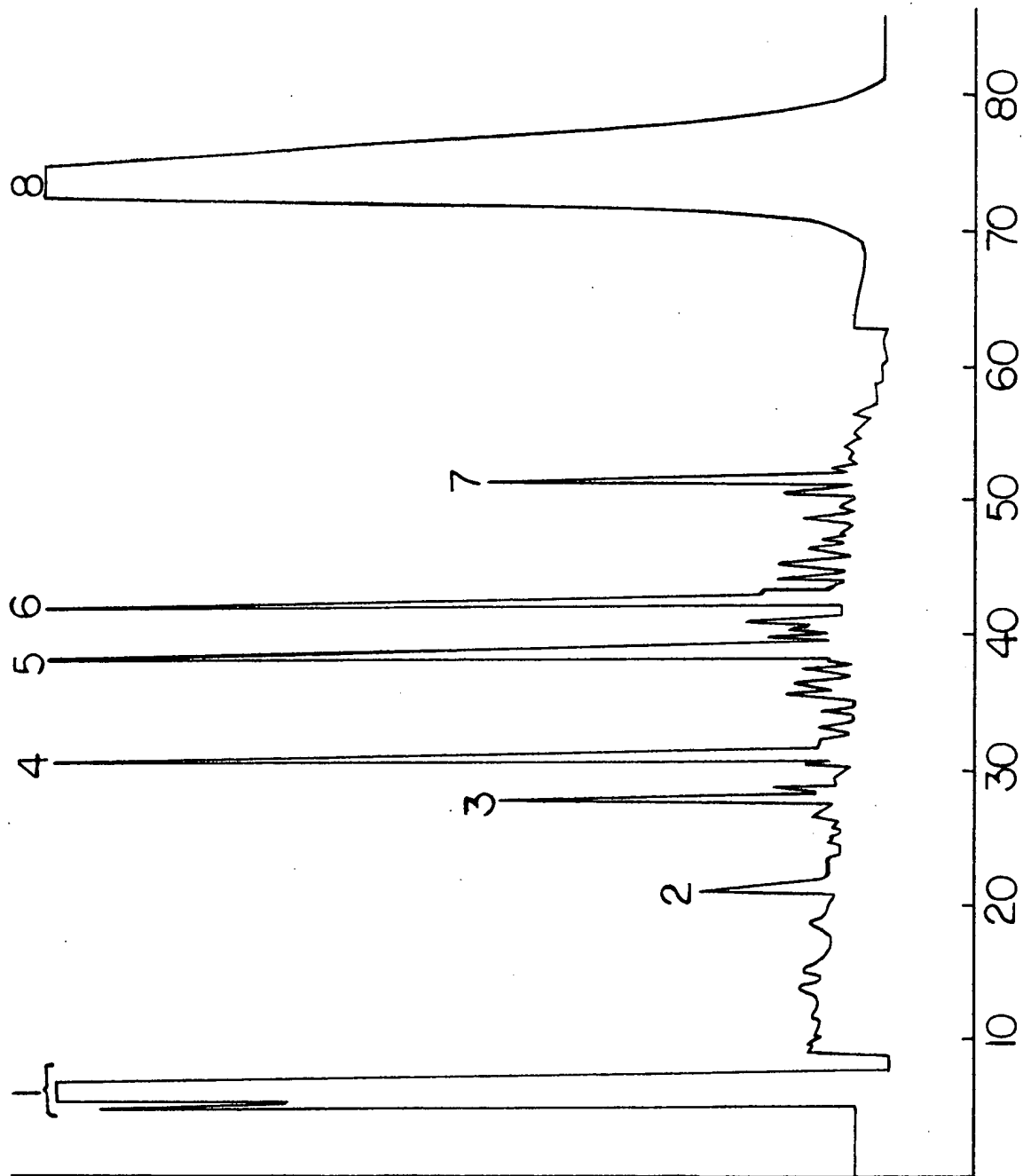


FIG.6





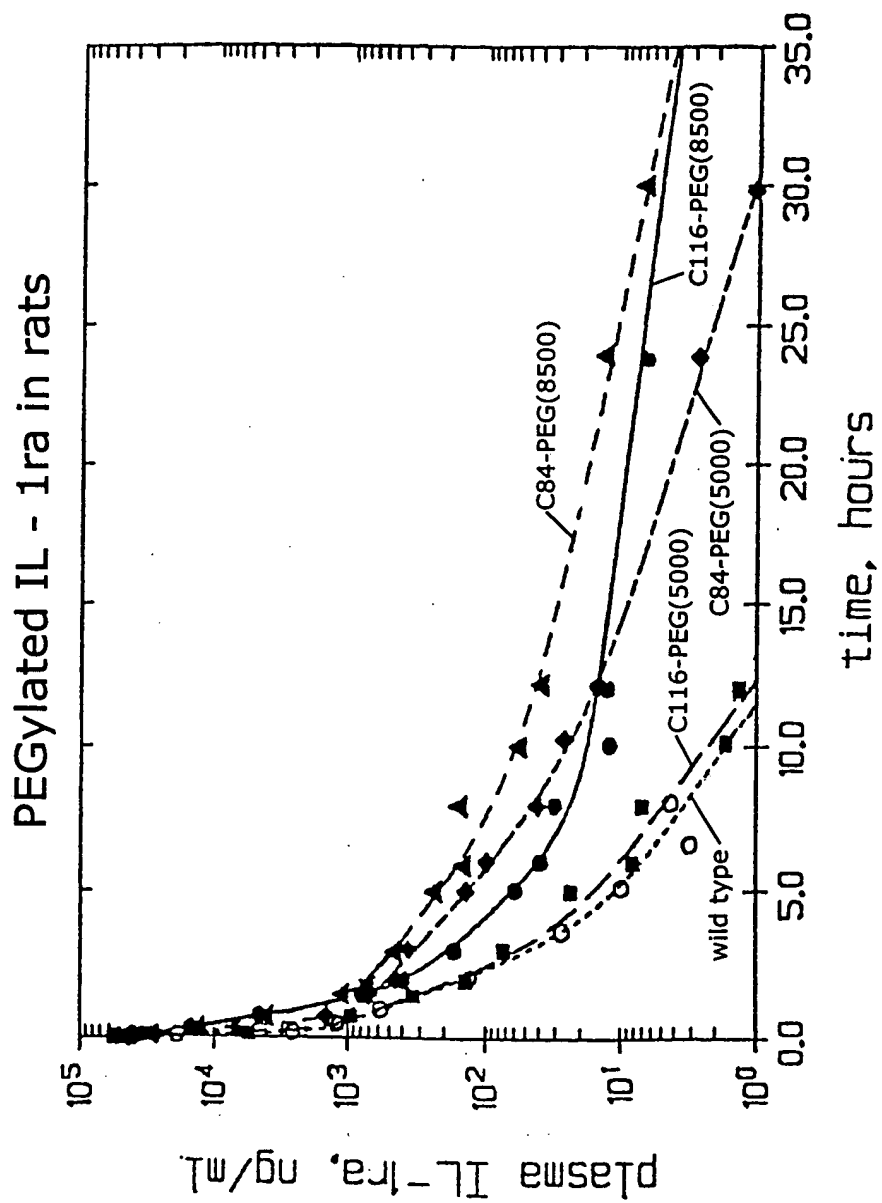


FIG. 8



MW START 15 16 17 18 19 20 21 22

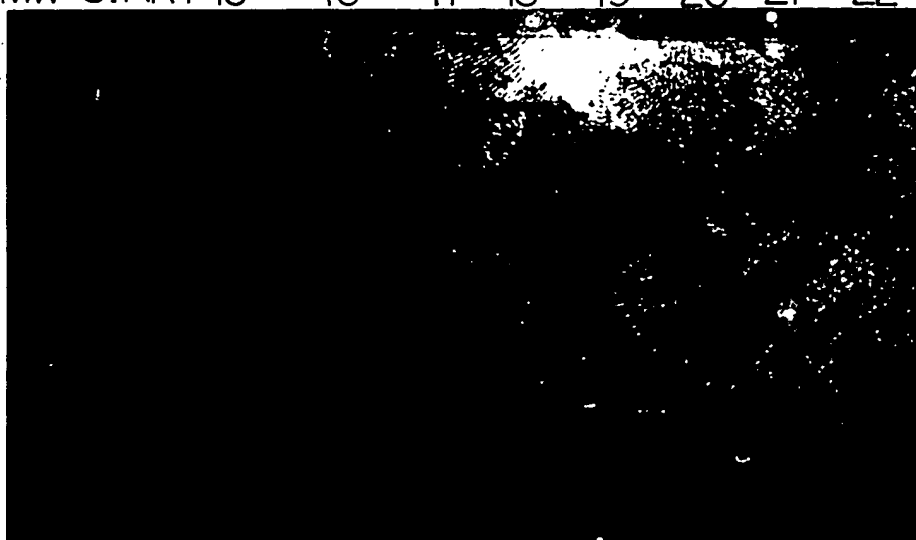


FIG.9

PEGylated IL - 1ra i.v. in rats

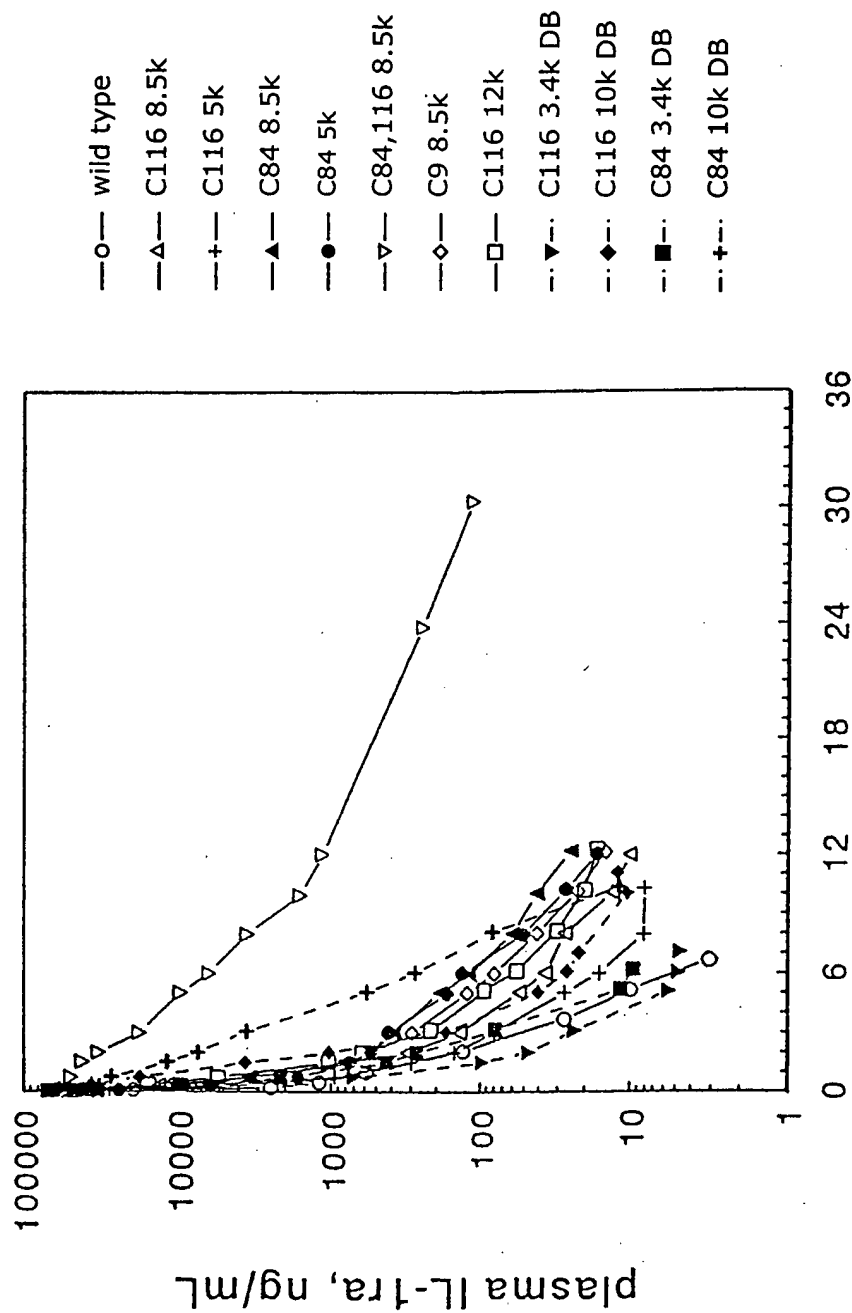


FIG. 10



PEGylated IL - 1ra s.c. in rats

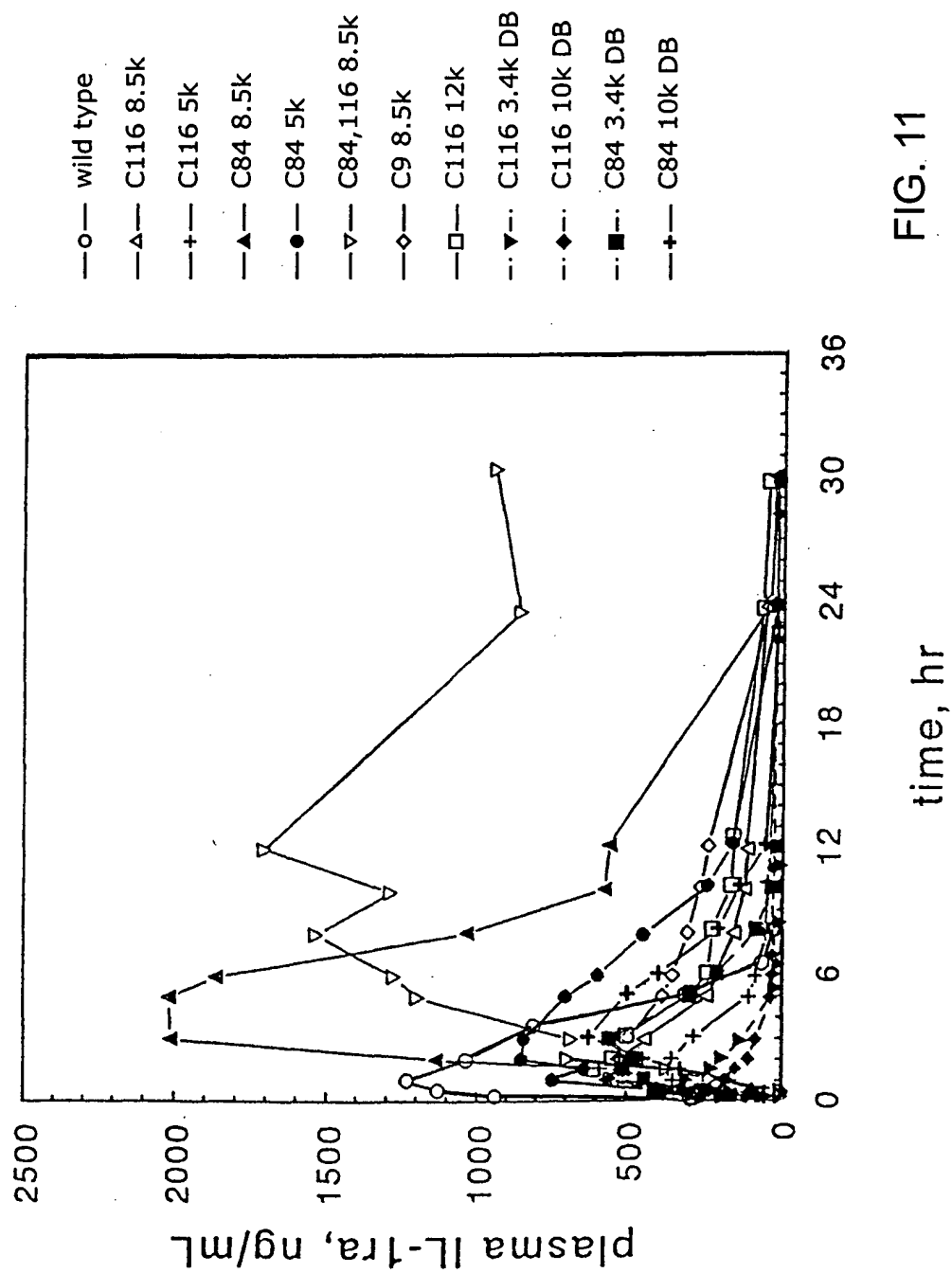
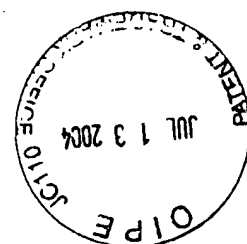


FIG. 11



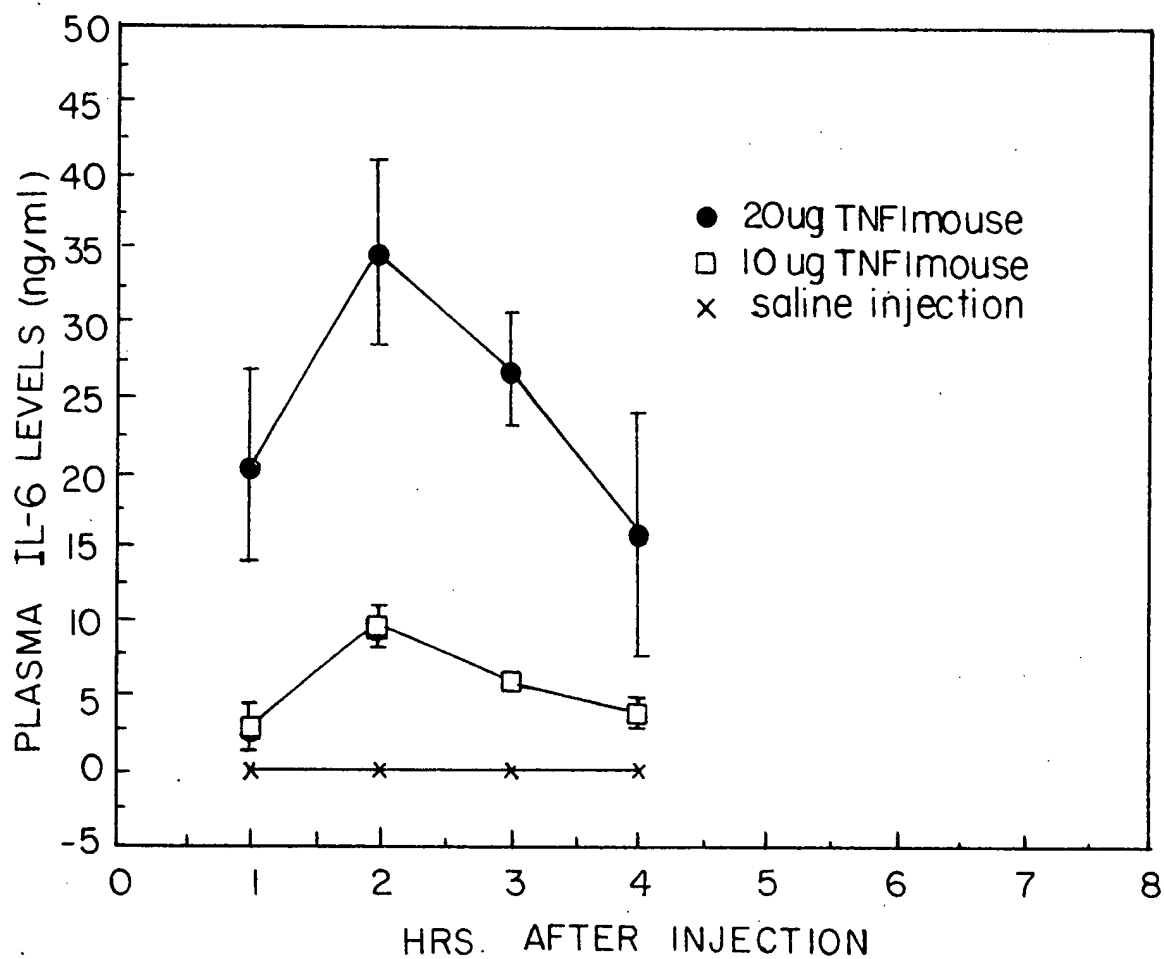


FIG.12

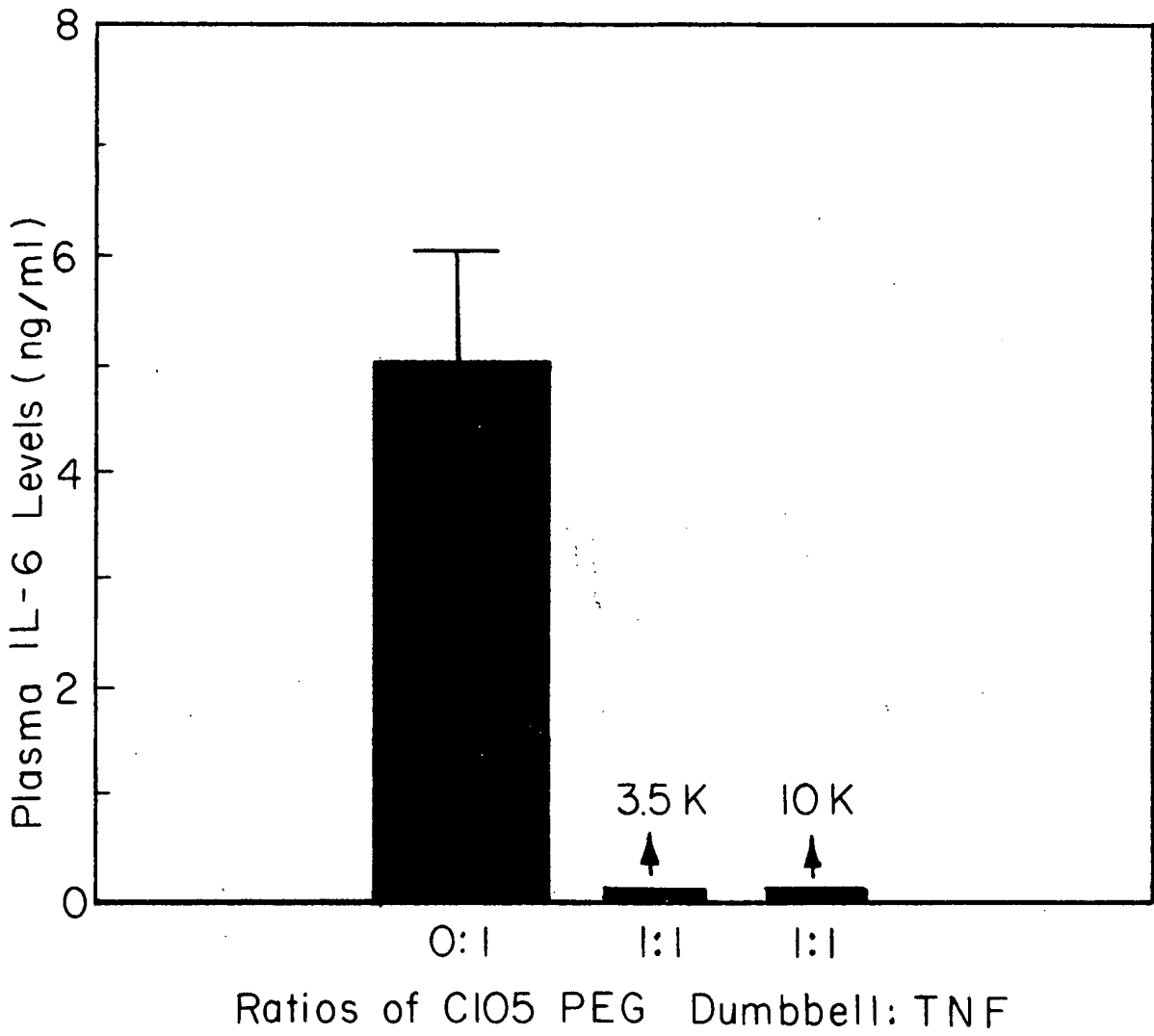


FIG.14

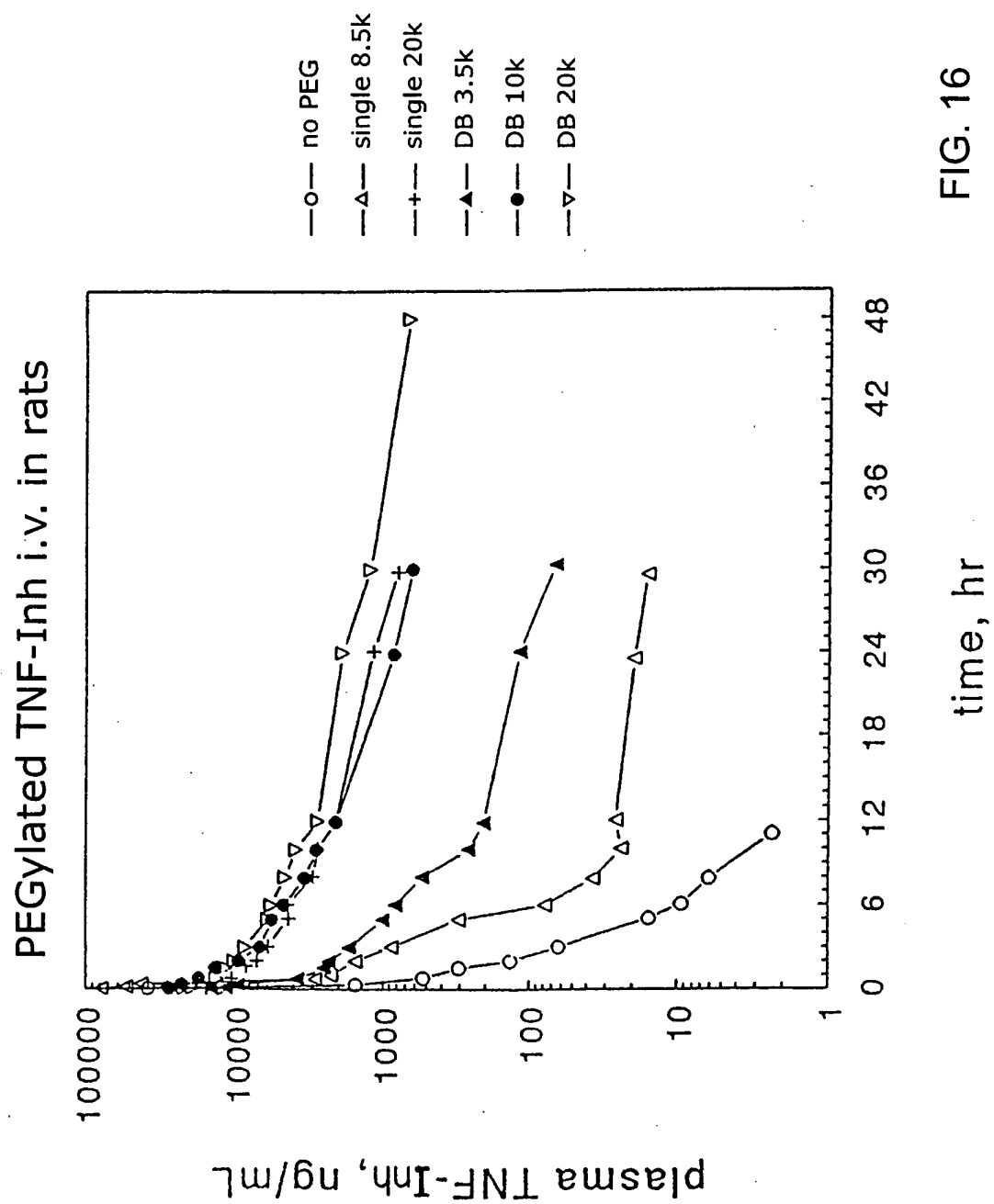
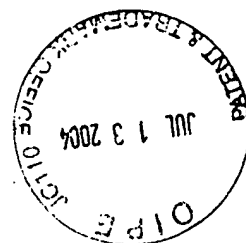


FIG. 16



PEGylated TNF-Inh s.c. in rats

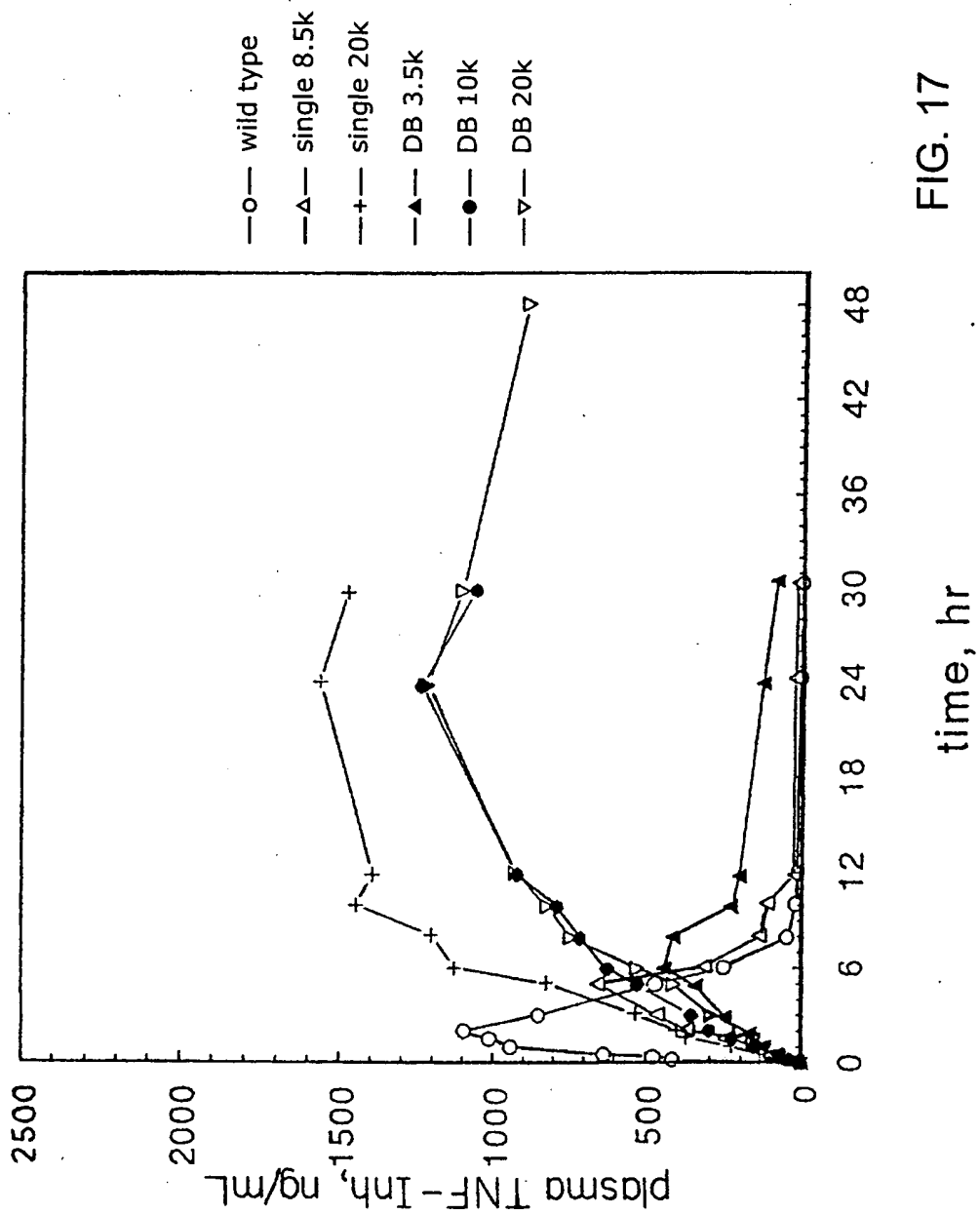
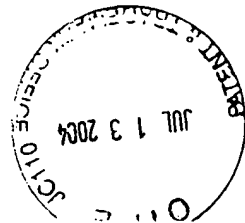


FIG. 17



SOLUBILITY OF PEGYLATED IL-1ra 4/15/91 160MG/ML

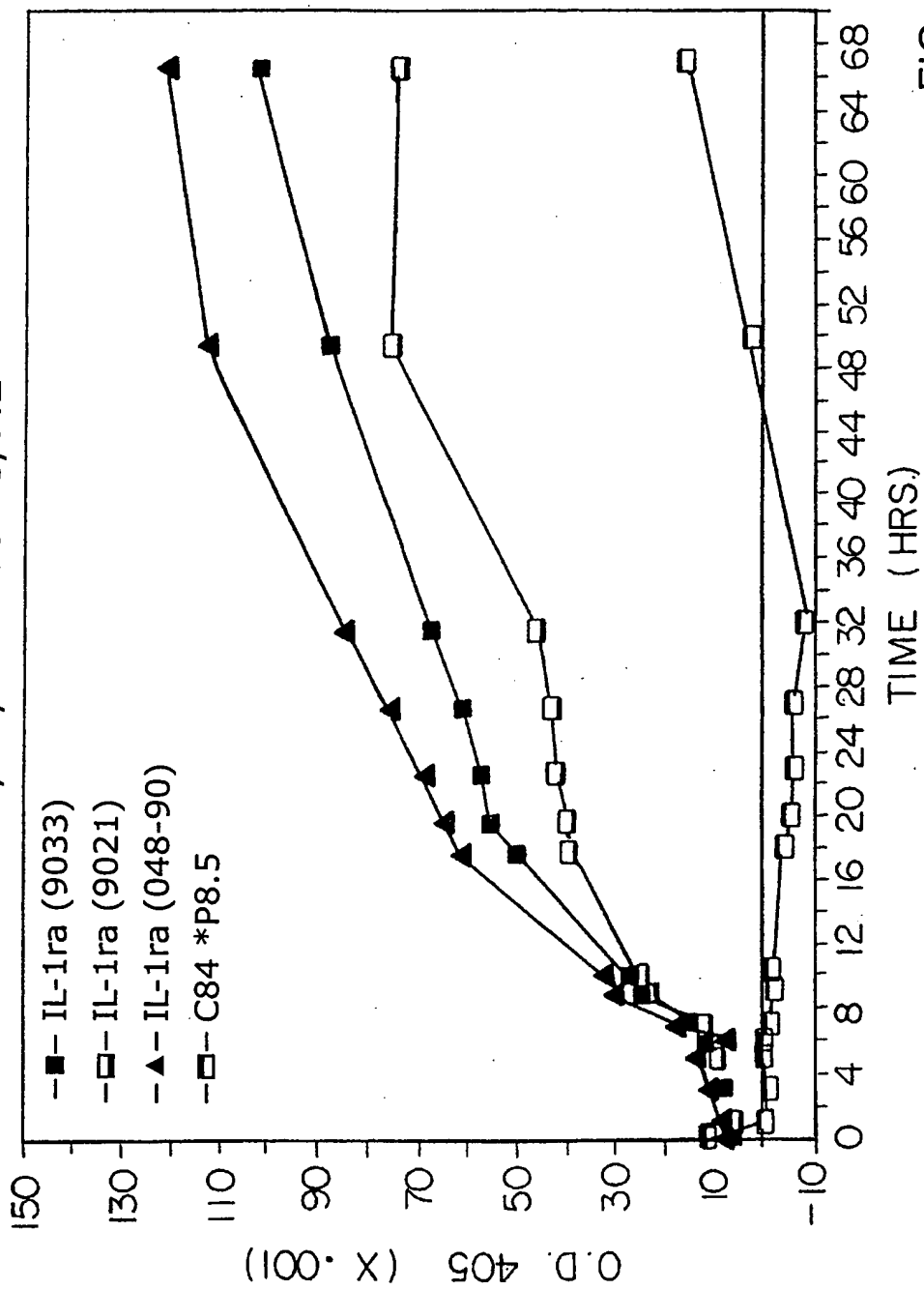


FIG. 18



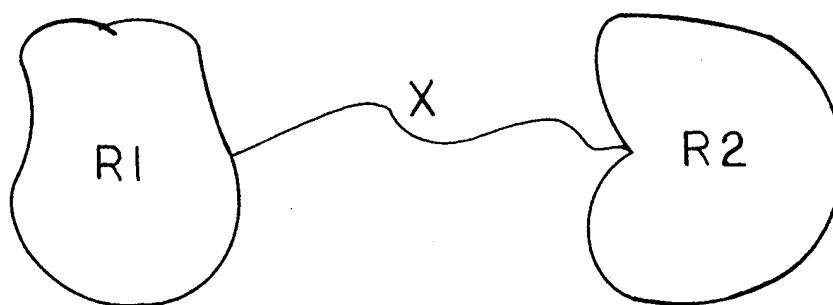


FIG.19